CONTENTS OF VOLUME 103

NUMBER 1

MAJOR PAPERS

MORPHOMETRIC ANALYSES OF INTRODUCED AND ANCESTRAL POPULATIONS OF THE EURASIAN TREE SPARROW — *Vincent L. St.Louis and Jon C. Barlow* 1

EUROPEAN STARLING FIDELITY TO DIURNAL ACTIVITY CENTERS: ROLE OF FORAGING SUBSTRATE QUALITY — *Donald F. Caccamise* 13

HOUSE WRENS ADJUST LAYING DATES AND CLUTCH SIZE IN RELATION TO ANNUAL FLOODING — *Deborah M. Finch* 25

ROUTES AND TIMING OF MIGRATION OF FALCONS BANDED IN CANADA — *Josef K. Schmutz, Richard W. Fyfe, Ursula Banasch, and Harry Armbruster* 44

SOCIALITY AND ONTOGENY OF COLORATION IN THE BLUE-AND-BLACK JAYS — *A. Townsend Peterson* 59

CHARACTERIZATION OF GRIT USE BY CORNFIELD BIRDS — *Louis B. Best and James P. Gionfriddo* 68

VARIATIONS IN DIETS OF NESTING COMMON RAVENS — *Richard B. Stiehl and Steven N. Trautwein* 82

SHORT COMMUNICATIONS

SONG TYPES OF BLACK-THROATED GREEN WARBLERS ON MIGRATION — *Douglass H. Morse* 93

AVOIDANCE OF SONG MATCHING IN THE WOOD THRUSH: A FIELD EXPERIMENT — *Carl L. Whitney* 96

DIURNAL RESTING METABOLIC RATES OF ACCIPITERS — *Patricia L. Kennedy and James A. Gessaman* 101

FEEDING ECOLOGY OF CHESAPEAKE BAY OSPREYS AND GROWTH AND BEHAVIOR OF THEIR YOUNG — *Peter K. McLean and Mitchell A. Byrd* 105

INTRASPECIFIC PIRACY IN OSPREYS — *L. Scott Forbes* 111

DEPREDATION OF ARTIFICIAL AVIAN NESTS IN IRRIGATED FORESTS — *Richard H. Yahner and Thomas E. Morrell* 113

NEST-SITE FIDELITY IN RED-HEADED AND RED-BELLIED WOODPECKERS — *Danny J. Ingold* 118

YELLOW-BELLIED SAPSUCKERS FEEDING AT RED-COCKADED WOODPECKER RESIN WELLS — *D. Craig Rudolph, Richard N. Conner, and Richard R. Schaefer* 122

CLASSICAL POLYANDRY IN THE WEST INDIAN WOODPECKER ON ABACO, BAHAMAS — *Lori A. Willimont, Jerome A. Jackson, and Bette J. S. Jackson* 124

NEST-SITE SELECTION BY THE HERALD PETREL AND WHITE-TAILED TROPICBIRD ON ROUND ISLAND, INDIAN OCEAN — *Joanna Burger and Michael Gochfeld* 126

TRISTAN THRUSHES KILL ADULT WHITE-BELLIED STORM-PETRELS — *Peter G. Ryan and Coleen L. Moloney* 130

BEHAVIORAL ECOLOGY OF RED-BACKED HAWKS IN CENTRAL CHILE — *Jaime E. Jiménez and Fabian M. Jaksić* 132

POULT ADOPTION IN MERRIAM'S WILD TURKEYS — *Todd R. Mills and Mark A. Rumble* 137

DIURNAL FORAGING BY SPOTTED OWLS — *Stephen A. Laymon* 138

WINTER RECOVERIES AND TERRITORIAL AFFINITY OF COMMON LOONS BANDED IN WISCONSIN — *Jerrold L. Belant, Raymond K. Anderson, and J. Marshall Wilson* 141

NESTING OF THE COMMON DIUCA FINCH IN THE CENTRAL CHILEAN SCRUB — *Ivan Lazo and Juan J. Anabalon* 143

THE PROXIMATE COSTS AND BENEFITS OF POLYGYNY TO MALE NORTHERN SHRIKES — *Reuven Yosef, William A. Mitchell, and Berry Pinshow* 146

ORNITHOLOGICAL LITERATURE 150
SHORT REVIEWS 162

NUMBER 2

MAJOR PAPERS

POPULATION TRENDS OF SOME NORTHEASTERN NORTH AMERICAN LANDBIRDS: A HALF-CENTURY OF DATA ..... *Norman P. Hill and John M. Hagan, III* 165

DIURNAL ACTIVITY BUDGET OF FEMALE RUDDY DUCKS BREEDING IN MANITOBA ..... *Michael W. Tome* 183

POLYTERRITORIAL POLYGYNY IN THE AMERICAN REDSTART ..... *Robert Charles Secunda and Thomas W. Sherry* 190

NEOTROPICAL MIGRANT BIRDS AND EDGE EFFECTS AT A FOREST-STREAM ECOTONE ..... *J. Edward Gates and Neil R. Giffen* 204

APPROACHES TO THE CONSERVATION OF COASTAL WETLANDS IN THE WESTERN HEMISPHERE ..... *Keith L. Bildstein, G. Thomas Bancroft, Patrick J. Dugan, David H. Gordon, R. Michael Erwin, Erica Nol, Laura X. Payne, and Stanley E. Senner* 218

SHORT COMMUNICATIONS

GEOGRAPHIC VARIATION AMONG SAGE GROUSE IN COLORADO ..... *Jerry W. Hupp and Clait E. Braun* 255

RESTING METABOLIC RATE OF GOLDEN EAGLES, BALD EAGLES, AND BARRED OWLS WITH A TRACKING TRANSMITTER OR AN EQUIVALENT LOAD ..... *James A. Gessaman, Mark R. Fuller, Peter J. Pekins, and Gary E. Duke* 261

SEXUAL DIMORPHISM AND ASSORTATIVE MATING IN BLACK TERNS ..... *Mark A. Stern and Robert L. Jarvis* 266

DIURNAL ACTIVITY PATTERNS AND FORAGING SUCCESS OF YELLOW-CROWNED NIGHT-HERONS IN SEASONALLY FLOODED WETLANDS ..... *Murray K. Laubhan, W. Dean Rundle, Beth I. Swartz, and Frederic A. Reid* 272

MATE SWITCHING AND MATE CHOICE IN FEMALE NORTHERN MOCKINGBIRDS: FACULTATIVE MONOGAMY ..... *Cheryl A. Logan* 277

FLOCK STRUCTURE OF WINTERING BIRDS IN AN IRRIGATED MIXED-OAK FOREST ..... *Brian F. Rollfinke and Richard H. Yahner* 282

SUMMER DIETS OF SOME INTRODUCED HAWAIIAN FINCHES ..... *Michael P. Moulton and David K. Ferris* 286

INTRUDERS ON YELLOW-EYED JUNCO TERRITORIES ..... *Joanna Leary and Kimberly A. Sullivan* 292

VARIABLE FIRST PREBASIC PRIMARY MOLT IN RIO GRANDE AND MERRIAM'S WILD TURKEYS ..... *Joel A. Schmutz and Richard W. Hoffman* 295

NATAL PTERYLOSIS OF PHOEBES ..... *Charles T. Collins and Kathleen Keane* 300

AN INCIDENCE OF SECOND BROOD PRODUCTION BY AN EASTERN WILD TURKEY ..... *D. Clay Sisson, Dan W. Speake, and J. Larry Landers* 303

FIRST NESTING RECORD FOR THE PIPING PLOVER IN OKLAHOMA ..... *Roger L. Boyd* 305

DIRT-STORING BEHAVIOR BY WHITE-BREASTED NUTHATCHES ..... *Bill E. Duyck, Douglas B. McNair, and Charles P. Nicholson* 308

UNUSUAL BEHAVIOR IN A SOLITARY VIREO ..... *Michael R. Kunzmann and R. Roy Johnson* 309

ORNITHOLOGICAL LITERATURE 311

NUMBER 3

MAJOR PAPERS

ROBERT M. MENGEL (1921–1990): THE BLENDING OF SCIENCE AND ART — *Robert McCracken Peck* 339

DISTRIBUTION AND BREEDING BIOLOGY OF THE RED-FRONTED MACAW — *Dirk V. Lanning* 357

DISTRIBUTION AND NEST SITES OF THE MONK PARAKEET IN BOLIVIA — *Dirk V. Lanning* 366

TEMPORAL PATTERNS OF SINGING ACTIVITY AT LEKS OF THE WHITE-BELLIED EMERALD
Jonathan L. Atwood, Vanessa L. Fitz, and Jennifer E. Barnesberger 373

ROOSTING AND DIURNAL MOVEMENTS OF RADIO-TAGGED AMERICAN CROWS
Philip C. Stouffer and Donald F. Caccamise 387

POPULATION DYNAMICS OF BLUE JAYS AT A BIRD FEEDER
Margaret B. Hickey and Margaret Clark Brittingham 401

EFFECTS OF PREDATOR PRESENCE ON THE NESTING DISTRIBUTION OF WHITE-CROWNED PIGEONS IN FLORIDA BAY — *Allan M. Strong, Richard J. Sawicki, and G. Thomas Bancroft* 415

THE BODY RUFFLING DISPLAY OF THE BLACK-CAPPED CHICKADEE
Victoria D. Piaskowski, Charles M. Weise, and Millicent Sigler Ficken 426

PTILOCHRONOLOGY: INDUCED FEATHER GROWTH IN NORTHERN CARDINALS VARIES WITH AGE, SEX, AMBIENT TEMPERATURE, AND DAY LENGTH
Thomas C. Grubb, Jr., Thomas A. Waite, and Arthur J. Wiseman 435

FOREST HABITAT LOSS, FRAGMENTATION, AND RED-COCKADED WOODPECKER POPULATIONS
Richard N. Conner and D. Craig Rudolph 446

CAVITY TREE SELECTION BY RED-COCKADED WOODPECKERS IN RELATION TO TREE AGE
D. Craig Rudolph and Richard N. Conner 458

THE RELATIONSHIP BETWEEN BREEDING BIRD DENSITY AND VEGETATION VOLUME
G. Scott Mills, John B. Dunning, Jr., and John M. Bates 468

SHORT COMMUNICATIONS

OBSERVATIONS OF WITHIN-COLONY BREEDING SYNCHRONY IN JACKASS PENGUINS
Philip J. Seddon, Yolanda Van Heezik, and John Cooper 480

CHARACTERISTICS OF YELLOW-CROWNED NIGHT-HERON NESTS IN LOWLAND HARDWOOD FORESTS OF MISSOURI — *Murray K. Laubhan and Frederic A. Reid* 486

MIGRATION OF SHARP-SHINNED HAWKS IN THE DRY TORTUGAS, FLORIDA — *Brad A. Andres* 491

BIRD SPECIES ON ST. ANDREW AND OLD PROVIDENCE ISLANDS, WEST CARIBBEAN
Alan Tye and Hilary Tye 493

BODY MEASUREMENTS OF BOREAL OWLS IN IDAHO AND A DISCRIMINANT MODEL TO DETERMINE SEX OF LIVE SPECIMENS — *Gregory D. Hayward and Patricia H. Hayward* 497

EFFECTS OF RED-CRESTED POCHARD NEST PARASITISM ON MALLARDS — *Juan A. Amat* 501

BROWN-HEADED COWBIRDS PARASITIZE LOGGERHEAD SHRIKES: FIRST RECORDS FOR FAMILY LANIIDAE — *David W. De Geus and Louis B. Best* 504

NESTS AND EGGS OF SOME COSTA RICAN BIRDS — *Manuel Marin A. and N. John Schmitt* 506

A CASE OF POLYGYNY IN THE WOOD THRUSH
R. Kent Johnson, Roland R. Roth, Sara E. Kleiner, and Charles R. Bartlett 509

DOUBLE-TOOTHED KITES FOLLOWING TAMARINS — *Silvia G. Egler* 510

UNPRECEDENTED STOPOVER SITE FIDELITY IN A TENNESSEE WARBLER
Kevin Winker, Dwain W. Warner, and A. R. Weisbrod 512

THE RESPONSE OF ADULT RED-COCKADED WOODPECKERS TO A FALLEN NESTLING
Richard R. Schaefer, D. Craig Rudolph, and Richard N. Conner 514

LEARNED SONG VARIATIONS IN BRITISH STORM-PETRELS? — *P. J. B. Slater* 515

TRISTRAM'S GRACKLES GROOM NUBIAN IBEX ..... *Reuven Yosef and Dalit Yosef* 518
TWO NEW HOST SPECIES FOR THE PARASITIC BLOW FLY *PROTOCALLIPHORA BRAUERI* *Frank P. Howe* 520
ORNITHOLOGICAL LITERATURE 522

NUMBER 4

MAJOR PAPERS

NOTES ON THE BEHAVIOR AND ECOLOGY OF THE RED-COTINGAS (COTINGIDAE: *PHOENICIRCUS*) *Pepper W. Trail and Paul Donahue* 539
REPEATABILITY OF CLUTCH SIZE IN HOUSE WRENS ..... *E. Dale Kennedy and Douglas W. White* 552
SIBLING SPECIES OF GREENLETS (VIREONIDAE) IN SOUTHERN BRAZIL ..... *Edwin O. Willis* 559
COMPARISON OF NESTING HABITAT OF COEXISTING SHARP-SHINNED AND COOPER'S HAWKS IN MISSOURI ..... *Ernie P. Wiggers and Kevin J. Kritz* 568
TIME BUDGETS AND THE ADAPTIVENESS OF POLYANDRY IN NORTHERN JACANAS *Burr J. Betts and Donald A. Jenni* 578
TIME-ACTIVITY BUDGET OF WILSON'S AND SEMIPALMATED PLOVERS IN A TROPICAL ENVIRONMENT *Alain Morrier and Raymond McNeil* 598
MIGRATION AND MASS CHANGE OF WHITE-RUMPED SANDPIPERS IN NORTH AND SOUTH AMERICA *B. A. Harrington, F. J. Leeuwenberg, S. Lara Resende, R. McNeil, B. T. Thomas, J. S. Grear, and E. F. Martinez* 621
SEASONALITY, HABITAT USE, AND FLOCK SIZES OF SHOREBIRDS AT THE BAHÍA DE ASUNCIÓN, PARAGUAY ..... *Floyd E. Hayes and Jennifer A. Fox* 637
SPECIMENS AND PROBABLE BREEDING ACTIVITY OF THE BAND-RUMPED STORM-PETREL ON HAWAII *Winston E. Banko, Paul C. Banko, and Reginald E. David* 650

SHORT COMMUNICATIONS

COPULATORY AND OTHER PRE-INCUBATION BEHAVIORS OF COOPER'S HAWKS *Robert N. Rosenfield, John Bielefeldt, and John Cary* 656
THE VOICE AND FIRST NESTING RECORDS OF THE ZIGZAG HERON IN EQUADOR *Peter English and Cynthia Bodenhorst* 661
ENHANCED FLEDGING SUCCESS BY COLONIALLY NESTING OSPREYS IN NOVA SCOTIA COASTAL HABITAT ..... *Stephen P. Flemming, Robert P. Bancroft, and Norman R. Seymour* 664
THE AVIFAUNA OF THE REVILLAGIGEDO ISLANDS, MEXICO: ADDITIONAL DATA AND OBSERVATIONS ..... *Luis Santaella and Andres M. Sada* 668
EFFECTS OF LEAFING AND POSITION ON NEST PREDATION IN A MEDITERRANEAN FRAGMENTED FOREST ..... *T. Santos and J. L. Telleria* 676
PAIRBOND FORMATION IN THE RAZORBILL ..... *Richard H. Wagner* 682
DISCOVERY OF THE MASKED SALTATOR IN COLOMBIA, WITH NOTES ON ITS ECOLOGY AND BEHAVIOR ..... *Luis Miguel Renjifo* 685
FRUIT HARVESTING BY AMERICAN ROBINS: INFLUENCE OF FRUIT SIZE *Douglas W. White and Edmund W. Stiles* 690
CONSPECIFIC AGGRESSION IN A WOOD STORK COLONY IN GEORGIA *A. Lawrence Bryan, Jr. and Malcolm C. Coulter* 693
FORAGING BEHAVIOR OF A GUILD OF NEOTROPICAL VULTURES ..... *William C. Lemon* 698
OVARIAN FOLLICLES DO NOT REVEAL LAYING HISTORIES OF POST-INCUBATION WOOD DUCKS ..... *Brad Semel and Paul Sherman* 703

A NOTE ON THE VOCALIZATIONS OF THE CHINESE NUTHATCH
Erik Matthysen, Sandra L. L. Gaunt, and D. Archibald McCallum 706

BIRD/ANT/ACACIA SYMBIOSES IN A MATURE NEOTROPICAL FOREST
James D. Gilardi and Kirsten von Kugelgen 711

VOCAL RESPONSIVENESS TO CHILLING IN EMBRYONIC AND NEONATAL AMERICAN COOTS
Shawn C. Bugden and Roger M. Evans 712

SUCCESSFUL EXCHANGE OF PRAIRIE-CHICKEN EGGS BETWEEN NESTS IN TWO REMNANT POPULATIONS ..... *Ronald L. Westemeier, Scott A. Simpson, and David A. Cooper* 717

OCCURRENCE OF THE ANDEAN CONDOR IN THE PERIJÁ MOUNTAINS OF VENEZUELA
Rosanna Calchi and Angel L. Viloria 720

DISTRIBUTION AND POPULATION STATUS OF HARLEQUIN DUCKS IN IDAHO
E. Frances Cassirer, Craig R. Groves, and Richard L. Wallen 723

HOUSE SPARROWS OPEN AN AUTOMATIC DOOR
Randall Breitwisch and Margaret Breitwisch 725

PROCEEDINGS OF THE SEVENTY-SECOND ANNUAL MEETING 727

INDEX 744